## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO. | DATE     |  |  |  |  |  |
|---------------------------|----------|--------|----------|--|--|--|--|--|
| FEE DETERMINATION         | David    |        | 06-29-01 |  |  |  |  |  |
| O.I.P.E. CLASSIFIER       |          |        |          |  |  |  |  |  |
| FORMALITY REVIEW          | ZA       | 1/20   | 8-15-01  |  |  |  |  |  |
| RESPONSE FORMALITY REVIEW |          |        |          |  |  |  |  |  |

## **INDEX OF CLAIMS**

| ~ | Rejected                   | N | Non-elected  |
|---|----------------------------|---|--------------|
|   | Allowed                    | 1 | Interference |
|   | (Through numeral) Canceled | Α | Appeal       |
|   | Restricted                 | 0 | Objected     |

| Clair     | m        |          | _        |           | - |          | Dat      | te           |           | _            |          |          | $\neg$       |   | CI       | aim      |          | _        | -          |          | Date         | 8            |              |  |          |          | ſ          | Cla                   | im         | -              |                 |  | Dat      | е            |          |  | _        |           |
|-----------|----------|----------|----------|-----------|---|----------|----------|--------------|-----------|--------------|----------|----------|--------------|---|----------|----------|----------|----------|------------|----------|--------------|--------------|--------------|--|----------|----------|------------|-----------------------|------------|----------------|-----------------|--|----------|--------------|----------|--|----------|-----------|
|           | _        | 2        | 30       | Ŧ         | Т |          |          | Π            | Τ         | Т            | П        | Ī        | $\neg$       |   | Г        | -        | П        | П        |            | $\neg$   |              |              | П            |  |          |          |            |                       | -a         | Π              |                 |  |          |              |          |  |          |           |
| Final     | ğ        | 141363   | シープラ     |           | 1 |          |          | Ì            |           |              |          |          |              |   | Final    | Original |          |          | ı          | İ        |              |              |              | -  |          | ١        |            | Final                 | Original   |                |                 | 1  |          |              |          | ļ  |          |           |
| <u> </u>  | 읬        | = 7      | ٠,٧      | 1         | - | $\dashv$ |          | ┡            | +-        | +            | $\dashv$ |          |              |   | <u>"</u> | 10       | ⊢⊦       | -        |            |          | $\dashv$     | +            | -            | $\dashv$   | +        | $\dashv$ | ŀ          |                       | 101        | $\vdash$       | Н               | -  | 1        | Н            | +        | +  | +        | $\dashv$  |
| _         | 4        | Y        |          | ╀         | + | -        |          | ┞            | ╀         | ╁            | $\dashv$ | $\dashv$ | ᅴ            |   | -        | 51<br>52 | Н        | -        | -          | $\dashv$ | -            | -+           | +            | $\dashv$   | ╁        | $\dashv$ | ŀ          | $\overline{}$         | 102        | H              | Н               | -  | _        | Н            | $\dashv$ | $\dashv$   | +        | $\dashv$  |
| $\dashv$  | 1        |          |          | ╀         | + | $\dashv$ | _        | ├            | ╀         | +            | $\dashv$ | -        | $\dashv$     |   | $\vdash$ | 53       | $\vdash$ | $\dashv$ | -          |          | $\dashv$     | $\dashv$     | $\dashv$     | ┪  | +        | -        | ł          |                       | 103        | $\vdash$       |                 | $\dashv$                                     |          | $\vdash$     | $\dashv$ | $\dashv$   | +        | $\dashv$  |
| -         | 4        | Н        | _        | ╀         | + | 4        | _        | ⊢            | ╀         | +            | $\dashv$ |          | ᅴ            |   | $\vdash$ | 54       | $\vdash$ | $\dashv$ |            | $\dashv$ | $\dashv$     | $\dashv$     | -            | +  | +        | $\dashv$ | ŀ          |                       | 104        | ┼╌             | Н               | $\dashv$                                     |          |              | ┪        | -+   | +        | $\dashv$  |
| $\vdash$  | 륇        | Н        | _        | ╁         | + | $\dashv$ |          | ┝            | ╁         | ╅            | $\dashv$ | -        | ᅱ            |   | $\vdash$ | 55       | Н        |          | -          |          | $\dashv$     | +            | ┪            | _  | $\dashv$ | ᅦ        | Ì          |                       | 105        | ┢              | Н               |  |          | Н            | _        | 寸  | 十        | ヿ         |
| $\vdash$  | 9        | Н        | -        | t         | + | $\dashv$ |          | ╁            | ۲         | +            | ╗        | -        | -            |   | $\vdash$ | 56       |          |          | -          |          |              | $\dashv$     |              | 寸  | 1        | ╗        |            | _                     | 106        | 1              |                 |  |          |              | _        | $\neg$   | $\top$   | ヿ         |
| -         | ã        | Н        |          | t         | + | $\dashv$ | _        | ┢            | +         | $\dagger$    | ┪        |          | $\dashv$     |   | 上        | 57       | H        |          | _          | _        | $\neg$       | 寸            | $\dashv$     | 寸  | T        | ┪        | l          |                       | 107        | Т              | П               |  |          | П            | コ        | $\neg$   | T        | ┑         |
| 7         | e        | Н        | _        | t         | + | 1        |          | H            | t         | +            | ┪        | 一        |              |   | $\vdash$ | 58       | Н        | $\neg$   |            |          | $\neg$       |              | ヿ            | $\neg$   | ヿ        |          |            | _                     | 108        |                | Г               |  |          | П            | ╗        | ヿ  | T        | ٦         |
|           | 4        |          |          | t         | ┪ | ┪        |          | T            | †         | 1            | ┪        | 一        | ╗            |   |          | 59       | П        | $\neg$   | _          |          |              |              |              | T  |          |          |            |                       | 109        |                |                 |  |          |              |          |  | $\Box$   |           |
| 寸         | 10       |          |          | Ť         | 7 | 7        |          | T            | T         | T            | T        |          | П            |   |          | 60       | П        |          |            |          |              |              | $\neg$       |  | Ī        |          |            |                       | 110        |                |                 |  |          |              |          |  | $\Box$   |           |
|           | 1        |          | Т        | t         | T |          |          | T            | T         | 7            | $\neg$   |          |              |   | Г        | 61       | П        |          | _          |          |              |              | [            |  |          |          |            |                       | 111        |                |                 |  |          |              |          |  | $\Box$   | ⅃         |
|           | 14       | 7        |          | Ť         | 7 |          |          | Ι            |           | _            |          |          |              |   |          | 62       |          |          |            |          |              |              |              |  | I        |          |            |                       | 112        |                |                 |  |          | Ш            |          |  |          |           |
| _         | ৰ        | 0        |          | Ī         | _ |          |          |              |           |              |          |          |              |   |          | 63       |          |          |            |          |              |              |              |  |          |          |            |                       | 113        |                | L               | _  | L        | Ш            |          |  | $\perp$  | _         |
| - 1       | 1        | 11       |          | I         |   |          |          |              |           |              |          |          |              |   |          | 64       |          |          |            |          |              | Ш            |              |  |          | _]       |            | L                     | 114        |                |                 | L  | <u> </u> | $oxed{oxed}$ | Ш        | _  | 4        | $\perp$   |
|           | 15       | П        |          | Ι         |   |          |          |              |           | $\prod$      |          |          |              |   |          | 65       |          |          |            | Ц        |              | Ш            | ]            |  | $\Box$   |          |            |                       | 115        | _              | $oxed{igspace}$ | _  | _        |              | Ш        | _  | $\dashv$ | ↲         |
|           | 16       | П        |          | Ι         |   |          |          |              | Ι         | $\Box$       |          |          |              |   | L        | 66       | $\Box$   |          |            | L        |              | Ш            | _            |  | $\Box$   |          |            |                       | 116        | ļ_             | 1_              | <u> </u>                                     | _        | <u> </u>     | $\Box$   | $\Box$   | $\dashv$ | 4         |
|           | 17       | Ц.       |          |           |   |          |          |              | ⊥         | _1           |          |          |              |   | L        | 67       |          |          | _          |          |              | Ц            | _            |  | $\dashv$ | Ш        |            | <u> </u>              | 117        | ┺              | ↓_              | <u> </u>                                     | _        | $\vdash$     | Ш        |  | 4        | -4        |
|           | 18       | Lr.      | L        | ⊥         | _ | _        |          | L            | 1         |              |          | Ш        |              |   | $\perp$  | 68       |          |          |            |          |              | Щ            | _            |  | _        |          |            | _                     | 118        |                | _               |  | _        | -            | <u> </u> |  | $\dashv$ | -         |
|           | 10       | V        | L.       |           | _ |          |          |              | T         |              |          | Ш        |              |   | L        | 69       | _        |          | lacksquare |          | _            | Ш            |              | _  | 4        | Ш        |            | <u> </u>              | 119        | <del> </del> _ | ╙               | <u> </u>                                     | <u> </u> | <u> </u>     | Ш        | _  | $\dashv$ | 4         |
| (         | 29       | Ε.       | -        | 1         |   |          |          |              |           |              |          |          |              |   | L        | 70       | _        |          | L.         | L        | _            |              |              |  | _        |          |            | L                     | 120        | L              | ļ               | $oxed{oxed}$                                 | ╙        | <u> </u>     |          |  | _        | ᆚ         |
|           | 21       |          | П        | Ι         |   |          |          |              |           |              |          |          |              |   | L        | 71       | -        |          | _          | L        | L            | Ш            |              |  | _        |          | ļ          | _                     | 121        | 1_             | <u> </u>        | Ļ  | L        | 1_           |          |  | _        | ᅵ         |
| _         | 22       |          | Ц        | I         |   |          |          |              | $\perp$   |              |          |          |              |   | L        | 72       |          | <u> </u> | L          | _        | _            | Ш            |              |  |          |          |            | L                     | 122        | 1_             | ļ.,             | <u>                                     </u> | _        | ļ            | _        | Ш  | 4        | $\dashv$  |
|           | 23       |          | П        | 1         |   |          |          |              | L         | $\perp$      |          |          | L            |   | L        | 73       |          |          | L          |          | _            | $oxed{oxed}$ |              |  |          |          |            | <u> </u>              | 123        | _              | ┞               | Ļ.   | _        | ┞-           | <u> </u> |  | $\dashv$ | _         |
|           | 24       |          | Ц        | 1         |   |          | L        | ┸            | 1         | _            |          |          | L            |   | L        | 74       |          | _        | L          | _        |              |              |              | $\vdash$   |          |          |            | <u> </u>              | 124        | ↓_             | ╀               | ļ.,  | ┡        | ⊢            | ┞-       | Ш  |          | 4         |
|           | 25       |          | Ц        | 1         |   |          | L        | 1            | 1         | $\downarrow$ |          |          | $oxed{oxed}$ | ļ | L        | 75       |          | _        | L          | <u> </u> | L_           |              |              |  |          |          |            | _                     | 125        | 1              | ↓_              | ┞  | -        | ⊢            | _        | Щ  | $\dashv$ |           |
|           | 26<br>27 | ┖        | Ц        | 4         |   |          | L        | $\perp$      | 4         | _            |          | L        | L            |   | L        | 76       |          | <u> </u> | _          | ļ        | -            | L            | L            | _  | _        | L        |            |                       | 126        | $\bot$         | ┼               | ┡  | <u> </u> | ╀            | ⊢        |  | $\dashv$ | $\dashv$  |
| _0        | 87       | 1_       | Ц        | Ц         | _ |          | <u>_</u> | L            | 4-        |              |          | _        | _            | 1 | _        | 77       |          | _        | _          | _        | <u> </u>     | <u> </u>     |              | <u> </u>   |          | _        | ł          | L                     | 127        | ╀              | ╀               | ⊢  | 1        | ╄            |          | H  | $\dashv$ | ᅴ         |
|           | 28       | ┖        | Ц        | 4         | _ |          | L        | 1            | 4         | _            |          | <u> </u> | _            | Į | $\perp$  | 78       | +-       | ⊢        | <u> </u>   | <b>├</b> | ├            | —            | ┝            | _  | _        | l-       | l          | ⊢                     | 128<br>129 | +-             | ⊢               | +-   | ├        | ╀            | ⊢        | -  | $\dashv$ | $\dashv$  |
| _         | 29       | 1_       | Н        | 4         | _ |          | <u>_</u> | ╀            | 4         | _            |          | <u> </u> | <u> </u>     | 1 | $\vdash$ | 79       |          | ₩        | ⊢          | ⊢        | ├            | ▙            | -            | -  |          | H        | ł          | ┝                     | 130        | +              | ┼-              | ╀  | Ì-       | ╁╌           | ╁        | $\vdash$   |          | $\dashv$  |
| _         | 30<br>31 | 4_       | H        | 4         | _ | <u>·</u> |          | ╀            | +         | -            |          | L        | <u> </u>     | - | -        | 80       |          |          | ₩          | ⊢        | ├            | ├            | -            |  | _        | ⊢        | ł          | ⊨                     | 131        | ╁              | ╁               | ╁  | ╀        | ⊢            | ├        | -  | $\vdash$ | $\dashv$  |
|           |          |          | H        | +         | _ | _        | ┞        | +            | +         | $\dashv$     | _        | ⊢        | ⊢            | ┨ | -        | 82       |          | -        | ⊢          | $\vdash$ | ⊨            | ⊢            | <del> </del> | -  | _        |          | ł          | ⊢                     | 132        | ╁              | +               | ╁  | ╫        | ╁            | ╁─       | -  | $\vdash$ | $\dashv$  |
| -4        | 32       | <b>L</b> | H        | +         | _ | _        | ┞        | ╀            | +         | -            | _        | ┢        | $\vdash$     | ł | $\vdash$ | 83       | -        | ┢        | ╀╌         | ⊢        | $\vdash$     | ├╌           | ├            | ⊢  | _        |          | -          | ┝                     | 133        | ╁              | ╁               | ╁╾   | ╁╴       | ╁            | ├-       | ┢  | $\vdash$ | $\dashv$  |
| _         | अ        | 4—       | Н        | +         | - |          | ⊢        | ╀            | +         | $\dashv$     |          | ⊢        | ├            | 1 | $\vdash$ | 84       |          | ├-       | ╁          | ╁        | ┢            | ├            | -            | -  | -        | ┢        | 1          | ⊢                     | 134        | +              | +               | ╁  | ╁╌       | ╁            | $\vdash$ | H  | $\dashv$ | $\dashv$  |
| $\dashv$  | 35       | +        | H        | +         | - | -        | ⊢        | +            | +         | $\dashv$     |          | $\vdash$ | $\vdash$     | 1 | $\vdash$ | 85       | -        | $\vdash$ | $\vdash$   | $\vdash$ | $\vdash$     | -            | $\vdash$     | $\vdash$   | $\vdash$ | -        | i          | H                     | 135        | +              | +               | t  | 1        | t            | $\vdash$ | <del>                                     </del> | Ħ        | $\dashv$  |
| ᅱ         | 36       |          | Н        | +         | - |          | $\vdash$ | +-           | +         | -            | _        | +-       | $\vdash$     | 1 | $\vdash$ | 86       | _        | $\vdash$ | $\vdash$   | $\vdash$ | <del> </del> | 1            | $\vdash$     | $\vdash$   | H        | $\vdash$ | i          | H                     | 136        | $\top$         | +-              | 十  | 1        | T            | $\vdash$ | Т  | $\Box$   | $\exists$ |
| -         | 37       | -        | H        | 4         | - | _        | ┢        | ╁            | +         | -            | _        | +        | -            | 1 | $\vdash$ | 87       | -        | -        | $\vdash$   | +        | +-           | 1            | $\vdash$     | $\vdash$   | -        | $\vdash$ | 1          | -                     | 137        | +              | +               | +  | t        | T            | t        | T  | $\Box$   | П         |
| $\dashv$  | 38       |          | H        | +         | _ | _        | $\vdash$ | +            | +         | -            | -        | $\vdash$ | ╁            | 1 | $\vdash$ | 88       |          | ╁        | $\vdash$   | ✝        | t            | †            | <del> </del> | Н  | H        | $\vdash$ | 1          | $\vdash$              | 138        | +              | †               | 1  | T        | T            | 1        | T  | $\sqcap$ | П         |
| $\dashv$  | 39       | _        | V        | 1         | - | -        | H        | +            | 十         | ᅱ            | -        | +-       | $\vdash$     | 1 | $\vdash$ | 89       |          | 1        | t          | 十        | 1.           | T            |              | -  | Т        | T        | 1          | Г                     | 139        | $\top$         | T               | $\top$                                       | T        | $\top$       | $\top$   |  | П        | П         |
|           | 40       | _        | Ť        | +         |   | -        | Ļ        | $\dagger$    | +         | $\dashv$     | _        | ┢        | $\vdash$     | 1 | F        | 90       | -        |          | T          | 1        | T            | T            |              | _  | Г        | Т        | 1          | Г                     | 140        | $\top$         | T               | T  | T        | T            | Г        |  | $\sqcap$ | П         |
| $\exists$ | 41       |          | +        | +         | _ | _        | +        | +            | +         | -            | H        | $\vdash$ | $\vdash$     | 1 | $\vdash$ | 91       |          | $\vdash$ | †          | t        | t            | 1            |              | T  | $\vdash$ | _        | 1          | $\vdash$              | 141        | †              | 1               | T  | T        | $\top$       | T        | T  | $\sqcap$ | Г         |
| 1         | 42       |          | $\vdash$ | +         | _ | _        | ⊢        | +            | +         | ┥            | -        | ╁        | $\vdash$     | 1 | 卜        | 92       |          | +        | t          | +        | +            | †-           | $\vdash$     | <del>                                     </del> | $\vdash$ | $\vdash$ | 1          | $\vdash$              | 142        | $\top$         | T               | T  | $\top$   | 1-           | T        | Π  | П        | Г         |
| $\dashv$  | 43       |          | $\vdash$ | +         |   |          | +        | +            | +         | $\dashv$     | _        | $\vdash$ | $\vdash$     | 1 | $\vdash$ | 93       |          |          | $t^{-}$    | T        | t            | t            |              | _  |          |          | 1 .        |                       | 143        | 十              | 1               | T  | $\top$   | $\top$       | T        | Τ  | П        | П         |
| $\vdash$  | 44       | 4        | $\vdash$ | +         | _ |          | +        | +            | +         | $\dashv$     | -        | $\vdash$ | $\vdash$     | 1 | $\vdash$ | 94       |          | $\vdash$ | $\vdash$   | T        | T            | T            | K            | E  |          | T        | 1          | $\boldsymbol{\Gamma}$ | 43         | П              | Α               | 7  |          | -            |          |  |          |           |
| $\dashv$  | 45       |          | +        | +         | _ | -        | $\vdash$ | $^{+}$       | +         | $\dashv$     | -        | t        | H            | 1 | 卜        | 95       |          | t        | $\vdash$   | T        | T            | 1            | ۲            | -  | V        | 1        | <b>/</b> _ | ۲,                    | <b>43</b>  |                | H               | D  |          |              | C        |  |          | P         |
| $\vdash$  | 46       |          | 1        | +         | - | _        | $\vdash$ | $^{\dagger}$ | +         | $\dashv$     | ┢        | $\vdash$ | 1            | 1 | F        | 96       |          | t        | T          | T        | T            |              | $\vdash$     | Г  | Γ        | Г        | 1          | Г                     | 146        | T              | T               | T  | Τ'       | T            |          |  |          | 1         |
| $\vdash$  | 47       |          | t        | $\dagger$ | _ | -        | t        | +            | +         | -            | <u> </u> | T        | T            | 1 | _        | 97       |          | T        | T          | 1        | T            | 1            | Г            | Г  | Γ        | Π        | 1          | Г                     | 147        | $\top$         | Т               | Τ  |          |              |          |  | П        |           |
| $\vdash$  | 48       |          | t        | +         |   | _        | †        | T            | +         | ᅢ            | -        | 1        | t            | 1 | _        | 98       |          | T        | T          | T        | T            | 1            | Т            | Г  | Г        | Г        | 1          |                       | 148        |                | Τ               | Ι  | Ι        | Ι            |          |  |          |           |
| $\vdash$  | 49       |          | t        | +         | _ | _        | $\vdash$ | +            | $\dagger$ | _            | ┢        | T        | t            | 1 |          | 99       |          | T        | 1          | 1        | T            | T            | Τ            | Π  | Г        | Т        | 1          |                       | 149        |                | Τ               | Ι  |          | Ι            |          | Ĺ  |          |           |
| $\vdash$  | 50       |          | t        | +         | _ | _        | T        | Ť            | +         | ┪            | Г        | T        | t            | 1 | 一        | 10       |          | $\vdash$ | 1          | 1        | 1            | T            | T            |  |          |          | 1          |                       | 150        | I              |                 | $\Gamma$                                     | Γ        | $\perp$      |          |  |          |           |

If more than 150 claims or 10 actions staple additional sheet here